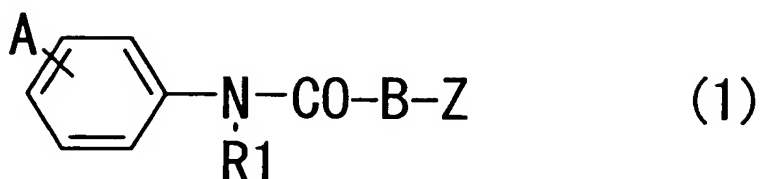


# CLAIMS

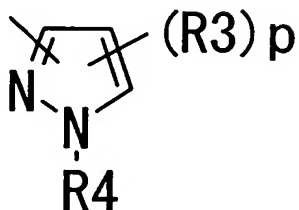
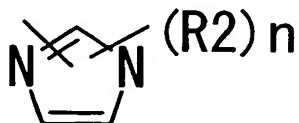
1. A compound represented by formula (1):



(wherein,

R1 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted,

A represents an imidazolyl group or a pyrazolyl group represented by the following formulae:



(wherein

R2 and R3 represent a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1,

R4 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1, a C<sub>1-6</sub> alkylcarbonyl group which may be substituted by G1, or a benzoyl group which may be substituted

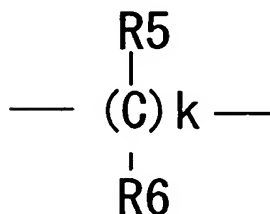
by G1,

n represents 0 or an integer of 1 to 3,

p represents 0 or an integer of 1 or 2, and

R2 and R3 may be identical to each other, or different from each other, when n and p are 2 or more),

B represents a group represented by the following formula:



(wherein

R5 and R6 each independently represents a hydrogen atom, a cyano group, a hydroxyl group, a halogen atom, a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynloxy group, a C<sub>1-6</sub> acyloxy group, or a C<sub>3-6</sub> cycloalkyl group, or a phenyl group which may have a substituent,

k represents 0 or an integer of 1 to 15, and

R5 and R6 may be identical to each other, or different from each other, when k is 2 or more), and

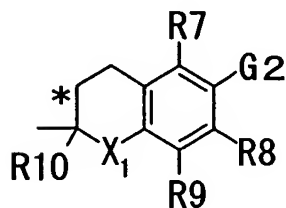
Z represents a chroman-2-yl group which is substituted by G2, a 2,3-dihydrobenzofuran-2-yl group which is substituted

by G2, a thiochroman-2-yl group which is substituted by G2, a 2,3-dihydrobenzothiophene-2-yl group which is substituted by G2, or a 1,3-benzoxathiol-2-yl group which is substituted by G2,

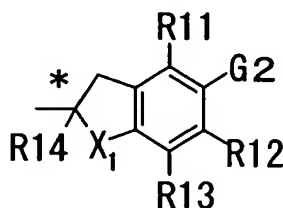
G1 represents a cyano group, a formyl group, a hydroxyl group, an amino group, a dimethylamino group, or a halogen atom,

G2 is represented by the following formula: NHR (wherein R represents a hydrogen atom, a C<sub>1-6</sub> alkylcarbonyl group, or a benzoyl group which may have a substituent), or a pharmaceutically acceptable salt thereof.

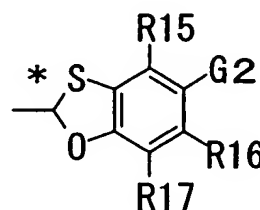
2. A compound or pharmaceutically acceptable salt according to claim 1, wherein z is a group represented by the following formula (A), (B) or (C):



(A)



(B)



(C)

(wherein

\* represents an asymmetric carbon atom,

X1 represents an oxygen atom or a sulfur atom,

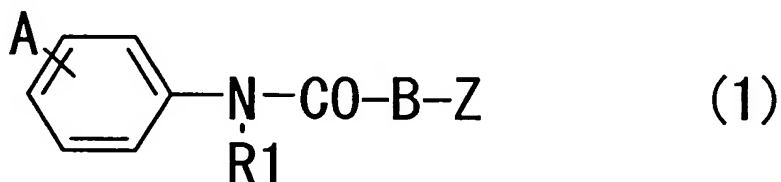
R7 to R17 each independently represents a hydrogen atom

or a C<sub>1-6</sub> alkyl group, and

G2 is represented by the following formula: NHR  
(wherein R represents a hydrogen atom, a C<sub>1-6</sub> alkylcarbonyl group,  
or a benzoyl group which may have a substituent)).

3. A compound or pharmaceutically acceptable salt according  
to claim 1 or 2, wherein A is 1-imidazolyl or 1-H-pyrazole-5-yl  
which is substituted at the fourth position on the benzene ring.

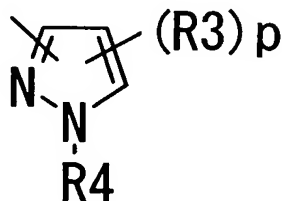
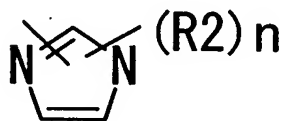
4. A production process of a compound represented by formula  
(1):



(wherein,

R1 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which  
may be substituted,

A represents an imidazolyl group or a pyrazolyl group  
represented by the following formulae:



(wherein

R2 and R3 represent a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1,

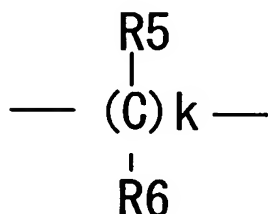
R4 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1, a C<sub>1-6</sub> alkylcarbonyl group which may be substituted by G1, or a benzoyl group which may be substituted by G1,

n represents 0 or an integer of 1 to 3,

p represents 0 or an integer of 1 or 2, and

R2 and R3 may be identical to each other, or different from each other, when n and p are 2 or more),

B represents a group represented by the following formula:



(wherein

R5 and R6 each independently represents a hydrogen atom, a cyano group, a hydroxyl group, a halogen atom, a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynloxy group, a C<sub>1-6</sub> acyloxy group, or a C<sub>3-6</sub> cycloalkyl group, or a phenyl group which

may have a substituent,

k represents 0 or an integer of 1 to 15, and

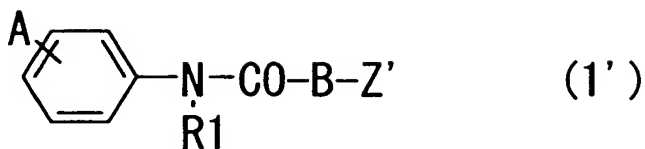
R5 and R6 may be identical to each other, or different from each other, when k is 2 or more),

Z represents a chroman-2-yl group which is substituted by G2, a 2,3-dihydrobenzofuran-2-yl group which is substituted by G2, a thiochroman-2-yl group which is substituted by G2, a 2,3-dihydrobenzothiophene-2-yl group which is substituted by G2, or a 1,3-benzoxathiol-2-yl group which is substituted by G2,

G1 represents a cyano group, a formyl group, a hydroxyl group, an amino group, a dimethylamino group, or a halogen atom, and

G2 is represented by the following formula: NHR (wherein R represents a hydrogen atom, a C<sub>1-6</sub> alkylcarbonyl group, or a benzoyl group which may have a substituent), comprising:

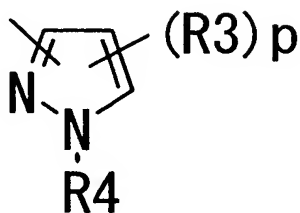
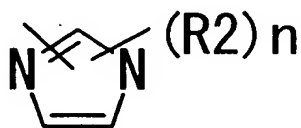
a step 1 in which a compound represented by the following formula (1')



(wherein

R1 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted,

A represents an imidazolyl group or a pyrazolyl group represented by the following formulae:



(wherein

R2 and R3 represent a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1,

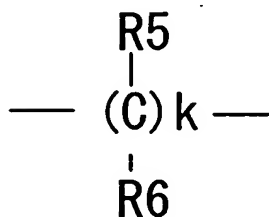
R4 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1, a C<sub>1-6</sub> alkylcarbonyl group which may be substituted by G1, or a benzoyl group which may be substituted by G1,

n represents 0 or an integer of 1 to 3,

p represents 0 or an integer of 1 or 2, and

R2 and R3 may be identical to each other, or different from each other, when n and p are 2 or more)),

B represents a group represented by the following formula:



(wherein

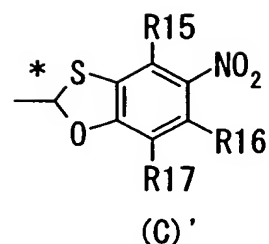
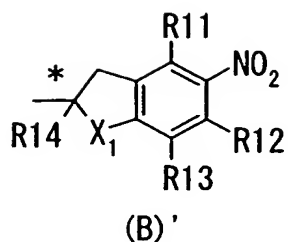
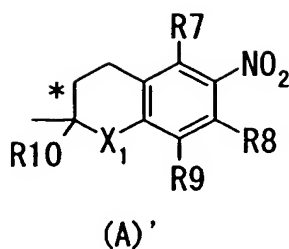
R5 and R6 each independently represents a hydrogen atom, a cyano group, a hydroxyl group, a halogen atom, a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynloxy group, a C<sub>1-6</sub> acyloxy group, or a C<sub>3-6</sub> cycloalkyl group, or a phenyl group which may have a substituent,

k represents 0 or an integer of 1 to 15, and

R5 and R6 may be identical to each other, or different from each other, when k is 2 or more), and

Z' is represented by the following formula (A)', (B)', or (C)':





(wherein

\* represents an asymmetric carbon atom,

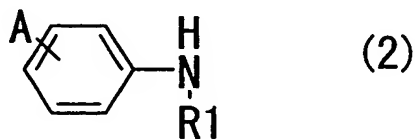
X1 represents an oxygen atom or a sulfur atom,

R7 to R17 each independently represents a hydrogen atom or a C<sub>1-6</sub> alkyl group, and

G2 is represented by the following formula: NHR

(wherein R represents a hydrogen atom, a C<sub>1-6</sub> alkylcarbonyl group, or a benzoyl group which may have a substituent))

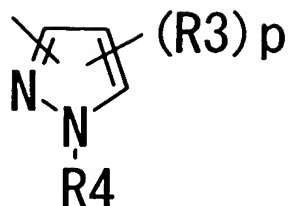
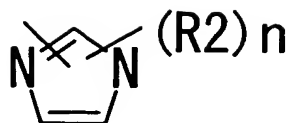
is produced by reacting an amine compound represented by formula (2):



(wherein

R1 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted, and

A represents an imidazolyl group or a pyrazolyl group represented by the following formulae:



(wherein

$R2$  and  $R3$  represent a hydrogen atom or a  $C_{1-6}$  alkyl group which may be substituted by  $G1$ ,

$R4$  represents a hydrogen atom or a  $C_{1-6}$  alkyl group which may be substituted by  $G1$ , a  $C_{1-6}$  alkylcarbonyl group which may be substituted by  $G1$ , or a benzoyl group which may be substituted by  $G1$ ,

$n$  represents 0 or an integer of 1 to 3,

$p$  represents 0 or an integer of 1 or 2, and

$R2$  and  $R3$  may be identical to each other, or different from each other, when  $n$  and  $p$  are 2 or more))

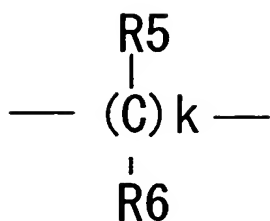
with a compound represented by the following formula (3):



(wherein

$Y$  represents a hydroxyl group or a halogen atom,

$B$  represents a group represented by the following formula:



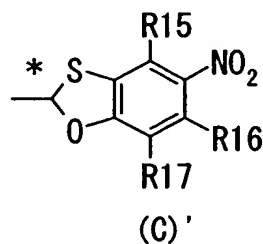
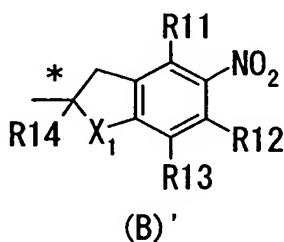
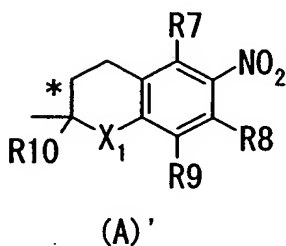
(wherein

R5 and R6 each independently represents a hydrogen atom, a cyano group, a hydroxyl group, a halogen atom, a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynloxy group, a C<sub>1-6</sub> acyloxy group, or a C<sub>3-6</sub> cycloalkyl group, or a phenyl group which may have a substituent,

k represents 0 or an integer of 1 to 15, and

R5 and R6 may be identical to each other, or different from each other, when k is 2 or more) and

Z' is represented by the following formula (A)', (B)', or (C)':



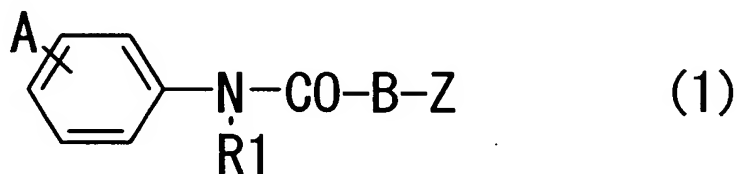
(wherein

\* represents an asymmetric carbon atom,  
 X1 represents an oxygen atom or a sulfur atom,  
 R7 to R17 each independently represents a hydrogen atom  
 or a C<sub>1-6</sub> alkyl group, and

G2 is represented by the following formula: NHR  
 (wherein R represents a hydrogen atom, a C<sub>1-6</sub> alkylcarbonyl group,  
 or a benzoyl group which may have a substituent)); and

a step 2 in which the nitro compound produced in the step  
 1 is converted to an amino group using a reducing agent.

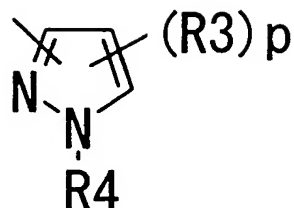
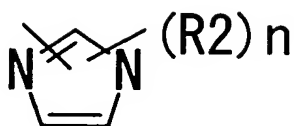
5. An antioxidant comprising as its active ingredient at least  
 one compound represented by formula (1):



(wherein

R1 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which  
 may be substituted,

A represents an imidazolyl group or a pyrazolyl group  
 represented by the following formulae:



(wherein

R2 and R3 represent a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1,

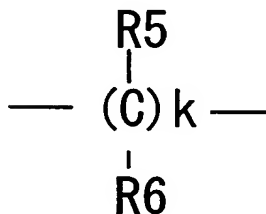
R4 represents a hydrogen atom or a C<sub>1-6</sub> alkyl group which may be substituted by G1, a C<sub>1-6</sub> alkylcarbonyl group which may be substituted by G1, or a benzoyl group which may be substituted by G1,

n represents 0 or an integer of 1 to 3,

p represents 0 or an integer of 1 or 2, and

R2 and R3 may be identical to each other, or different from each other, when n and p are 2 or more)),

B represents a group represented by the following formula:



(wherein

R5 and R6 each independently represents a hydrogen atom, a cyano group, a hydroxyl group, a halogen atom, a C<sub>1-6</sub> alkyl

group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynloxy group, a C<sub>1-6</sub> acyloxy group, or a C<sub>3-6</sub> cycloalkyl group, or a phenyl group which may have a substituent,

k represents 0 or an integer of 1 to 15, and

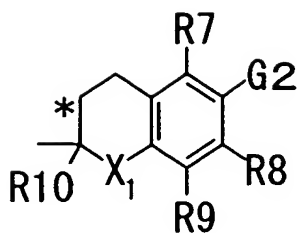
R5 and R6 may be identical to each other, or different from each other, when k is 2 or more),

Z represents a chroman-2-yl group which is substituted by G2, a 2,3-dihydrobenzofuran-2-yl group which is substituted by G2, a thiochroman-2-yl group which is substituted by G2, a 2,3-dihydrobenzothiophene-2-yl group which is substituted by G2, or a 1,3-benzoxathiol-2-yl group which is substituted by G2,

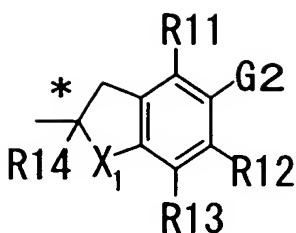
G1 represents a cyano group, a formyl group, a hydroxyl group, an amino group, a dimethylamino group, or a halogen atom, and

G2 is represented by the following formula: NHR (wherein R represents a hydrogen atom, a C<sub>1-6</sub> alkylcarbonyl group, or a benzoyl group which may have a substituent) or a pharmaceutically acceptable salt thereof.

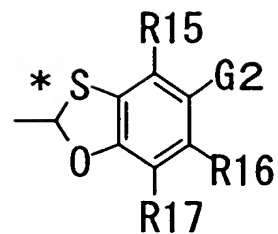
6. An antioxidant according to claim 5, wherein in formula (1) z is represented by the following formula (A), (B), or (C):



(A)



(B)



(C)

(wherein

\* represents an asymmetric carbon atom,

X1 represents an oxygen atom or a sulfur atom,

R7 to R17 each independently represents a hydrogen atom or a C<sub>1-6</sub> alkyl group, and

G2 is represented by the following formula: NHR

(wherein R represents a hydrogen atom, a C<sub>1-6</sub> alkylcarbonyl group, or a benzoyl group which may have a substituent)).

7. A kidney disease, cerebrovascular or cardiovascular disease treatment agent characterized by comprising the antioxidant according to claim 6.

8. A cerebral infarction treatment agent characterized by comprising the antioxidant according to claim 6.

9. A retinal oxidation disorder inhibitor characterized by comprising the antioxidant according to claim 6.

10. A retinal oxidation disorder inhibitor according to claim 9 for age-related macular degeneration or diabetic retinopathy.

11. A lipoxygenase inhibitor characterized by comprising the antioxidant according to claim 6.

12. A 20-hydroxyeicosatetraenoic acid (20-HETE) synthase inhibitor characterized by comprising the antioxidant according to claim 6.